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(54) Title: IRS MODULATORS

(57) Abstract: This invention is directed to a general method for the chronic treatment, potential cure, or prevention of various metabolic and related diseases in people, including diabetes, by modulating IRS2 activity in cells and tissues in the body. IRS1 and IRS2 are part of the insulin or insulin-like growth factor signaling pathway. By upregulating the levels or functional activity of IRS2, insulin is used more efficiently by the body to control nutrient levels. By upregulating IRS2 levels or functional activity in pancreatic β -cells, glucose sensing and insulin secretion are enhanced.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61P 5/00; C12Q 1/68
US CL : 514/2; 435/6

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 514/2; 435/6

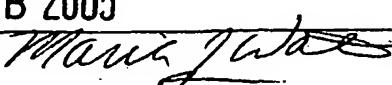
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Dachicourt et al. Glucagon-like peptide-1(7-36)-amide confers glucose sensitivity to previously glucose-incompetent beta-cells in diabetic rats: in vivo and in vitro studies. J. of Endo. 1997. Vol 155: pp. 369-376, esp. p. 375: paragraph 3 and 4.	1-6 and 9-15
X,P	Drucker, DJ, Development of Glucagon-like Peptide-1-Based Pharmaceuticals as Therapeutic Agents for the Treatment of Diabetes, Current Pharmaceutical Design 2001, Vol 1: pp. 1399-1412, esp. p. 1400: Figure 1.	1-6 and 8-15
Y	Trumper et al., Inegrative Mitogenic Role of Protein Kinase B/Akt in Beta-Cells, Ann. NY Acad. Sci. 2000, Vol. 921: pp. 242-250, esp. p. 244-245.	1-15
X	US 5,858,701 (White et al.) 19 Jan. 1999 (19.01.1999), Column 4: lines 45-54, Column 6: lines 39-57, Column 8: lines 26-32.	16-17

<input type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"&"	document member of the same patent family

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